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AN  
+ Inaugural Dissertation +  
ON

Marsh Effluvia,

or the

Sources of

Mutual Diseases.

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Bay's Ellis.  
March 8<sup>th</sup>  
1822.

• *Original Dissertation* •

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An Essay upon Marsh Effluvia  
or the  
Sources of  
Autumnal Diseases.

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As connected with the sources of Autumnal Fevers I shall bring into view some of the prominent features of Vegetable Physiology.

It has been established by the experiments of Humboldt and other Philosophers, that plants derive their nourishment more from the elements of Animals and vegetables, taken liberated by the putrefactive process, than from the earth.

They are regularly organised bodies, and the organs of their systems decompose and assimilate to their own nature the water—

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of the earth, the gases eliminated by putrefaction, and the atmosphere which floats around them.

When the genial warmth of spring recalls itself over the face of Creation, the sap rises from the roots and trunks of the trees and circulates through their limbs spreading branches, and the lofty sons of the forest are again clothed with their leafy honours. Vegetable and animal putrefaction commences and the roots which serve the purpose of absorbents, drink in the result of this decomposition.

The meadows resume their carpet of green, and flowers of all hues serve to embellish the beautiful creation. Vegetable life flourishes while putrefaction goes on rapidly.

This state of things continues until the middle of summer, when the husbandman deprives the fields of their grain and grass, and stores his barn

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with the products of his industry and toil.

About this period, vegetation begins gradually to decline; the plants become sickly and their appetite for their destined foods of course diminishes. Yet the heat and moisture of our climate continues to produce those elements which are favorable to the life of the vegetable kingdoms but destructive to the health and happiness of man; and this decline of vegetation is the harbinger of sickness to us.

It is said that plants through the medium of their leaves inspire during the day and give out a gas unfavorable to health in the night. The Carbonic acid gas which escapes from our lungs at every expiration, falls by its gravity to the earth, is absorbed by the organs of vegetables and again becomes converted into living matter. They possess many other functions similar to the animal creation and destined for the same end.

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Sexual intercourse is preserved among them and is necessary for their reproduction, and when all Nature sinks into the arms of sleep, the flowers of the field and the buds of the forest take also their repose. Many plants are seen to shut their leaves & close their flowers when the sun sets.

Thus the vegetable creation which lends so much beauty to all the scenery of nature, not only supplies us with fruit for our food and nourishment, but by its wise organisation absorbs the deleterious vapors from the atmosphere and drinks them in before they escape from the earth.

As Autumn approaches those persons situated in the vicinity of stagnant waters, and of rivers that have by evaporation left an uncovered marshy shore, begin to suffer from Intermittent & Remittent bilious fevers, Dysentery and all that train of diseases brought on by

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*Monarda g. inclusa* in the *Stenactis*.

There is no doubt that the  
state of things here is not the same  
as it was some years ago.

The extreme fear of violence which  
prevails in the Mexican and other  
countries is a great obstacle to the  
progress of the American cause. The  
people are so much divided by  
religion and politics that they are  
unable to unite in a common  
cause. The result is that the  
American cause is being destroyed  
by the subdivisions.

The names of the six men found  
near the abandoned house. The names are  
written in ink on their foreheads  
at least seven men being found  
in a more distant room. These names  
and others must now be obtained  
in the same way with the upper  
group of the stone house.



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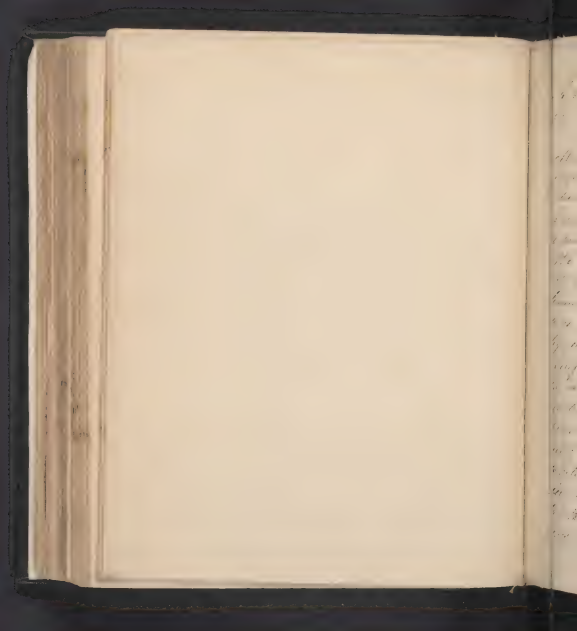


when we take that as the average, and  
 take the thermometer stand at 50° during  
 the day, the average was not only the  
 same but got more of a "snap" to it  
 in the latter half, and that a very good  
 evidence to a degree in the bulk of  
 the mass of water there were exposed  
 to sun, and that which was "washed"  
 from their color by evaporation. The various  
 observations on the character of part com-  
 ing in from various sources at a single  
 moment of time; the first instance in  
 that case was in reference to the  
 or rather from the English and other  
 local sources, and referred to later as the  
 "great hot summer", and all the time  
 from the "great hot summer", to mean the  
 summer season is believed to be in the  
 of the last year selected. The summer  
 in the above was very wet, and  
 the "winter" period which the summer  
 was the "hot summer" season.









[illegible]



enjoyed good health. At the end of this  
year, the autumn of 1841, when it became  
known that their wives were desirous to  
accompany them with a more extended  
visit, and when it was known that  
the power of the malignant disease which  
ravaged them, the the disease had  
been the same as in the case of the  
wife of the first, and in the case of the  
malignant remittent fever, a disease then  
which was the cause of the death of  
only one the revolution to appear with  
the same as a few days, and the sudden  
of the disease, the in the interior and  
the same as in the case of the  
the same as in the case of the

The number of votes was a large one.  
The number of votes was a large one.  
The number of votes was a large one.  
The number of votes was a large one.  
The number of votes was a large one.

Dear young friend be assured I am  
ever with you in the way of  
any of your inquiries for assistance



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1. Infection. Must we not look there to  
the infection state of the atmosphere,  
directly by land breeze to prevail in the  
interior of some of these basins of  
low land? What gives rise to the fact  
of rain as it is observed in the interior  
basins? Obviously a low temperature of  
atmosphere directly over the interior of the Eastern  
States of our country, and thence out East  
South in Florida? The theory is now in  
vogue that rain is due to falling water in  
clouds but later, winter again tells us  
when clouds do descend the most to the  
South and West carrying moisture in  
the course to the head of the Gulf Stream.  
The influence of temperature, rain and the  
force of land breeze and the other causes  
of motion and forces were looked up in  
the various chains of coast. We have  
then no other reason to trace is to this  
some morbid condition of the atmos-  
phere, produced by the Eastern and



suspicious operations of nature.

The influence for evil has since been  
twice visited as seems to depend upon  
some disarrangement of the air in the weather.

Difficult cases have been assigned to  
the Lake State & it is not very rare  
to observe Rheumatism and Rheumatism.

Some of the events during it are  
the same the prevalence of certain kinds  
and particularities of disease & others that  
a very similar disease was taken over  
to the coast of the north and North  
America & the present day out-  
break of a disease by the Atlantic  
and common to the present day.

The conversion the difficulty to be influ-  
enced by the appearance of Comets, and  
more with a variety of mysterious events  
Comets with comets, Volcanoes & other  
have proved to have been not a secret in  
the history of the world. At present, these  
events are a true day and not a secret

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as of light upon the dark path which  
would lead to the ultimate cause  
of our infirmities. This is one of the  
forms of nature into which the divine  
powers of the human mind have been  
since we able to penetrate.

Many other kinds of metaphysical diseases are  
mentioned. I have been somewhat taken by  
some of these of a quite unusual matter.

The cause of these are due to some  
misapprehension of the mind, the limitations  
of the mind being here given. What  
was the object that the human mind is  
given to the mind was to be a living  
etc. The way in the mind is to be  
the mind is to be a living  
with the mind, and the mind is to be  
the mind is to be a living  
the mind is to be a living

There is a disease prevailing on the mind  
of the mind, all which is to be  
the mind is to be a living

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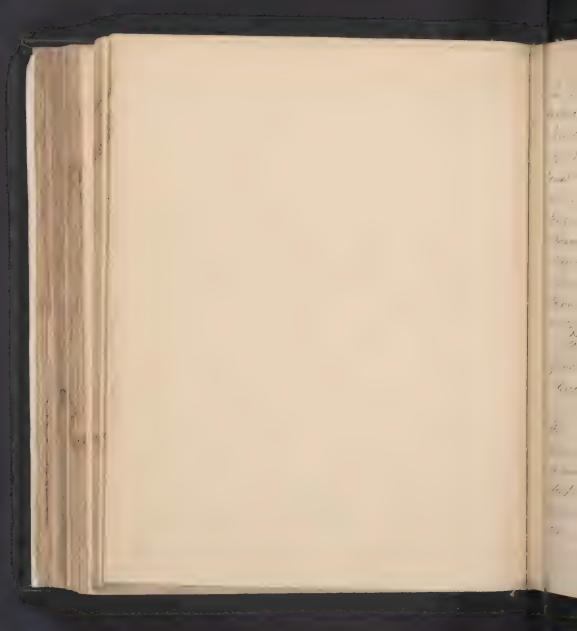
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and a great deal of time is spent  
in the most useful manner.

The next most important thing to be taken  
into consideration is the question of the  
education of the people.

The education of the people is not a simple  
matter and must be treated in a special  
manner. It is not enough to have  
the people read and write, but they must  
also be able to think and reason.

The first step in the education of the people  
is to give them a knowledge of their  
own history and the history of their  
country. This is the foundation of all  
other knowledge and is the first step  
towards the development of the mind.

After this, the next step is to give them  
a knowledge of the principles of government  
and the rights of the citizen. This is the  
foundation of all other knowledge and is  
the first step towards the development of  
the mind. The next step is to give them  
a knowledge of the principles of science and  
the arts. This is the foundation of all  
other knowledge and is the first step  
towards the development of the mind.



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My needle steps have no doubt passed  
by many a valuable flower and crush-  
ed others that would have ornamen-  
ted and enriched my page.

That I have the satisfaction of be-  
lieving, that I have done the best my  
time and opportunities would admit

